



SUMMARIZE WRITTEN TEXT

1.1 PASCOLENA FLORRY

When Namibia gained independence in 1990, teenager Pascolena Florry was herding goats in the country's dry, desolate northern savannah. Her job, unpaid and dangerous, was to protect her parents' livestock from preying jackals and leopards. She saw wildlife as the enemy, and many of the other indigenous inhabitants of Namibia's rural communal lands shared her view. Wildlife poaching was commonplace. Fifteen years later, 31-year-old Pascolena's life and outlook are very different. She has built a previously undreamed-of career in tourism and is the first black Namibian to be appointed manager of a guest lodge. Her village, and hundreds of others, have directly benefited from government efforts to devolve wildlife management and tourism development on communal lands to conservancies run by indigenous peoples. "Now we see the wildlife as our way of creating jobs and opportunities as the tourism industry grows," she also says. "The future is better with wildlife around, not only for jobs, but also for the environment" (Florry 2004).

(Namibia's establishment of conservancies is among the most successful efforts by developing nations to decentralize natural resource management and simultaneously combat poverty. In fact, it is one of the largest-scale demonstrations of so-called "community-based natural resource management" (CBNRM) and the state-sanctioned empowerment of local communities. Most conservancies are run by elected committees of local people, to whom the government devolves user rights over wildlife within the conservancy boundaries. Technical assistance in managing the conservancy is provided by government officials and local and international nongovernmental organizations (NGOs). In late 2004, 31 conservancies were operating on 7.8 million hectares of desert, savannah, and woodlands occupied by 98,000 people.)

1.1.1 Sample Answer

The establishment of conservancies, run by local communities and assisted by the government and NGOs, has been proved successful to help developing countries to decentralize natural resources, create jobs and improve the economy.

1.2 CHILDREN WATCH TV

Why and to what extent should parents control their children's TV watching? There is certainly nothing inherently wrong with TV. The problem is how much television a child watches and what effect it has on his life. Research has shown that as the amount of time spent watching TV goes up, the amount of time devoted not only to homework and study but other important aspects of life such as social development and physical activities decreases.

Television is bound to have it tremendous impact on a child, both in terms of how many hours a week he watches TV and of what he sees. When a parent is concerned about the effects of watching television, he should consider a number of things: what TV offers the child in terms of information and knowledge, how many hours a week a youngster his age should watch television, the impact of violence and sex, and the influence of commercials.

What about the family as a whole? Is the TV set a central piece of furniture in your home! Is it flicked on the moment someone enters the empty house? Is it on during the daytime? Is it part of the background noise of your family life? Do you demonstrate by your own viewing that television should be watched selectively?

Since television is clearly here to stay, it is important that parents manage their children's TV viewing so that it can be a plus rather than a minus in the family situation.

1.2.1 Sample Answer

Watching too much television has negative effects on important aspects of children's life and it is not television but the way that parents manage their children's TV watching, including the time they spend on, the programs they watch and even how the family deal with the TV, that matters.

1.3 SLP OFFICER

Armed police have been brought into NSW schools to reduce crime rates and educate students. The 40 School Liaison Police (SLP) officers have been allocated to public and private high schools across the state.

Organizers say the officers, who began work last week, will build positive relationships between police and students. But parent groups warned of potential dangers of armed police working at schools in communities where police relations were already under strain.

Among their duties, the SLPs will conduct crime prevention workshops, talking to students about issues including shoplifting, offensive behaviour, graffiti and drugs and alcohol. They can also advise school principals. One SLP, Constable Ben Purvis, began to work in the inner Sydney region last week, including at Alexandria Park Community School's senior campus. Previously stationed as a crime prevention officer at The Rocks, he now has 27 schools under his jurisdiction in areas including The Rocks, Redfern and Kings Cross.

Constable Purvis said the full-time position would see him working on the broader issues of crime prevention. "I am not a security guard," he said. "I am not there to patrol the school.

We want to improve relationships between police and schoolchildren, to have positive interaction. We are coming to the school and giving them knowledge to improve their own safety."

The use of fake ID among older students is among the issues he has already discussed with principals.

Parents' groups responded to the program positively, but said it may spark a range of community reactions.

"It is a good thing and an innovative idea and there could be some positive benefits," Council of Catholic School Parents executive officer

Danielle Cronin said. "Different communities will respond to this kind of presence in different ways."

1.3.1 Sample Answer

School liaison police have been brought into NSW schools to reduce crime rates and improve students' safety by conducting workshops and some people believe it a good thing while others not.

1.4 COW AND GRASS

The co-evolutionary relationship between cows and grass is one of nature's underappreciated wonders; it also happens to be the key to understanding just about everything about modern meat. For the grasses, which have evolved to withstand the grazing of ruminants, the cow maintains and expands their habitat by preventing trees and shrubs from gaining a foothold and hogging the sunlight; the animal also spreads grass seed, plants it with his hooves, and then fertilizes it with his manure. In exchange for these services the grasses offer ruminants a plentiful and exclusive supply of lunch. For cows (like sheep, bison, and other ruminants) have evolved the special ability to convert grass—which single-stomached creatures like us can't digest—into high-quality protein. They can do this because they possess what is surely the most highly evolved digestive organ in nature: the rumen. About the size of a medicine ball, the organ is essentially a forty-five-gallon fermentation tank in which a resident population of bacteria dines on grass. Living their unseen lives at the far end of the food chain that culminates in a hamburger, these bacteria have, just like the grasses, coevolved with the cow, whom they feed. Truly this is an excellent system for all concerned: for the grasses, for the bacteria, for the animals, and for us, the animals' eaters.

There is a co-evolutionary relationship between cows and grass as the cows, which is one of the ruminants that has rumen to digest the grass into high quality protein even though the grasses already evolved to against the grazing of ruminants, can help the grass spread seed by their hooves and also provide manure to it.

1.4.1 Sample Answer

There is a co-evolutionary relationship among cows, grass and bacteria as cows have rumen where bacteria could digest grass into high quality protein while they help the grass spread seed by their hooves and also provide manure to it.

1.5 AUSTRALIAN EDUCATION

When Australians engage in debate about educational quality or equity, they often seem to accept that a country cannot achieve both at the same time. The lecture will present compelling international evidence that there are countries which do, though Australia is not among them.

Curriculum reforms intended to improve equity often fail to do so because they increase breadth or differentiation in offerings in a way that increases differences in quality. Further, these differences in quality often reflect differences in students' social backgrounds because the 'new' offerings are typically taken up by relatively disadvantaged students who are not served well **by** them. Evidence from New South Wales will be used to illustrate this point.

The need to improve the quality of education is well accepted across OECD and other countries as they seek to strengthen their human capital to underpin their modern, knowledge economies. Improved equity is also important for this purpose, since the demand for high-level skills is widespread and the opportunities for the low-skilled are diminishing.

Improved equity in education is also important for social cohesion. There are countries in which the education system seems primarily to reproduce existing social arrangements, conferring privilege where it already exists and denying it where it does not. Even in countries where the diagnosis might be less extreme, the capacity of schooling to build social cohesion is often diminished by the way in which schools separate individuals and groups.

1.5.1 Sample Answer

Although improved educational equity increases differences in quality so that educational equity and quality can't be achieved at the same time, improved educational equity and quality are still important because they could strengthen human capital and social cohesion.

1.6 NATIONAL PROHIBITION ACT

In 1920, the Eighteenth Amendment to the United States Constitution was enacted, creating yet another serious setback to the American wine industry. The National Prohibition Act, also known as the Volstead Act, prohibited the manufacture, sale, transportation, importation, exportation, delivery, or possession of intoxicating liquors for beverage purposes, and nearly destroyed what had become a thriving national industry. In 1920 there were more than seven hundred wineries in California. By the end of Prohibition there were 160.

If Prohibition had lasted only four or five years, its impact on the wine industry might have been negligible. But it continued for thirteen years, during which time grapes went underground literally and figuratively, becoming an important commodity in the criminal economy. One loophole in the Volstead Act allowed for the manufacture and sale of sacramental wines, medicinal wines for sale by pharmacists with a doctor's prescription, and medicinal wine tonics (fortified wines) sold without prescription. Perhaps more importantly, Prohibition allowed anyone to produce up to two hundred gallons of fruit juice or cider each year. The fruit juice, which was sometimes made into concentrate, was ideal for making wine. Some of this yield found its way to bootleggers throughout America who did just that. But not for long, because the government stepped in and banned the sale of grape juice, preventing illegal wine production. Vineyards stopped being planted, and the American wine industry ground to a halt.

1.6.1 Sample Answer

In 1920, the Volstead Act came into effect and lasted for 13 years to prohibit the manufacture, sale, transportation, importation, exportation, delivery, or possession of intoxicating liquors and almost destroyed this industry though its loophole allowed for the production of some kinds of wine and fruit juice which later on was banned by the government.

1.7 IT'LL NEVER FLY: THE CITY OF LONDON

Who would have thought back in 1698, as they downed their espressos, that the little band of stockbrokers from Jonathan's Coffee House in Change Alley EC3 would be the founder-members of what would become the world's mighty money capital?

Progress was not entirely smooth. The South Sea Bubble burst in 1720 and the coffee house exchanges burned down in 1748. As late as Big Bang in 1986, when bowler hats were finally hung up, you wouldn't have bet the farm on London surpassing New York, Frankfurt and Tokyo as Mammon's international nexus. Yet the 325,000 souls who operate in the UK capital's financial hub have now overtaken their New York rivals in size of the funds managed (including offshore business); they hold 70% of the global secondary bond market and the City dominates **the** foreign exchange trading. And its institutions paid out £9 billion in bonuses in December. The Square Mile has now spread both eastwards from EC3 to Canary Wharf and westwards into Mayfair, where many of the private-equity 'locusts' and their hedge-fund pals now hang out. For foreigners in finance, London is the place to be. It has no Sarbanes-Oxley and no euro to hold it back, yet the fact that it still flies so high is against the odds. London is one of the most expensive cities in the world to live in, transport systems groan and there's an ever-present threat of terrorist attack. But, for the time being, the deals just keep on getting bigger.

1.7.1 Sample Answer

London has surpassed its rivals and has dominated global financial markets to become the world's mighty money capital due to its judicial and currency advantages even though the expansion progress was not smooth.

1.8 ASKING QUESTIONS

All non-human animals are constrained by the tools that nature has bequeathed them through natural selection. They are not capable of striving towards truth; they simply absorb information, and behave in ways useful for their survival. The kinds of knowledge they require of the world have been largely pre-selected by evolution. No animal is capable of asking questions or generating problems that are irrelevant to its immediate circumstances or its evolutionarily-designed needs. When a beaver builds a dam, it doesn't ask itself why it does so, or whether there is a better way of doing it. When a swallow flies south, it doesn't wonder why it is hotter in Africa or what would happen if it flew still further south.

Humans do ask themselves these and many other kinds of questions, questions that have no relevance, indeed make little sense, in the context of evolved needs and goals. What marks out humans is our capacity to go beyond our naturally-defined goals such as the need to find food, shelter or a mate and to establish human-created goals.

Some contemporary thinkers tend to believe that there are indeed certain questions that humans are incapable of answering because of our evolved nature. Steven Pinker, for instance, argues that "Our minds evolved by natural selection to solve problems that were life-and-death matters to our ancestors, not to commune with correctness or to answer any question we are capable of asking. We cannot hold ten thousand words in our short-term memory. We cannot see ultra-violet light. We cannot mentally rotate an object in the fourth dimension. And perhaps we cannot solve conundrums like free will and sentience."

1.8.1 Sample Answer

Unlike animals that could only absorb information pre-selected by the nature, humans can ask themselves questions which are irrelevant to naturally-defined needs and goals and some people believe that humans are also incapable of answering some questions due to the evolved nature.

1.9 DIASPORA CONSCIOUSNESS

Diasporas – communities which live outside, but maintain links with, their homelands – are getting larger, thicker and stronger. They are the human face of globalization. Diaspora consciousness is on the rise: diasporans are becoming more interested in their origins, and organising themselves more effectively; homelands are revising their opinions of their diasporas as the stigma attached to emigration declines, and stepping up their engagement efforts; meanwhile, host countries are witnessing more assertive diasporic groups within their own national communities, worrying about fifth columns and foreign lobbies, and suffering outbreaks of ‘diasporaphobia’.

This trend is the result of five factors, all of them connected with globalisation: the growth in international migration; the revolution in transport and communications technology, which is quickening the pace of diasporans’ interactions with their homelands; a reaction against global homogenised culture, which is leading people to rethink their identities; the end of the Cold War, which increased the salience of ethnicity and nationalism and created new space in which diasporas can operate; and policy changes by national governments on issues such as dual citizenship and multiculturalism, which are enabling people to lead transnational lives. Diasporas such as those attaching to China, India, Russia and Mexico are already big, but they will continue to grow; the migration flows which feed them are likely to widen and quicken in the future.

1.9.1 Sample Answer

The trend that diasporas are conscious about their origins and that host countries are suffering outbreaks of diasporaphobia, results from five factors related to globalisation: the growth in international migration, transportation and communication technology revolution, a reaction against global homogenised culture, the end of the Cold War and policy changes by governments.

1. 10A CALL FOR REVOLUTIONARY THINKING

We live in an ageing world. While this has been recognized for some time in developed countries, it is only recently that this phenomenon has been fully acknowledged. Global communication is “shrinking” the world, and global ageing is “maturing” it. The increasing presence of older persons in the world is making people of all ages more aware that we live in a diverse and multigenerational society. It is no longer possible to ignore ageing, regardless of whether one views it positively or negatively.

Demographers note that if current trends in ageing continue as predicted, a demographic revolution, wherein the proportions of the young and the old will undergo a historic crossover, will be felt in just three generations. This portrait of change in the world’s population parallels the magnitude of the industrial revolution - traditionally considered the most significant social and economic breakthrough in the history of humankind since the Neolithic period. It marked the beginning of a sustained movement towards modern economic growth in much the same way that globalization is today marking an unprecedented and sustained movement toward a “global culture”. The demographic revolution, it is envisaged, will be at least as powerful.

While the future effects are not known, a likely scenario is one where both the challenges as well as the opportunities will emerge from a vessel into which exploration and research, dialogue and debate are poured. Challenges arise as social and economic structures try to adjust to the simultaneous phenomenon of diminishing young cohorts with rising older ones, and opportunities present themselves in the sheer number of older individuals and the vast resources societies stand to gain from their contribution.

This ageing of the population permeates all social, economic and cultural spheres. Revolutionary change calls for new, revolutionary thinking, which can position policy formulation and implementation on sounder footing. In our ageing world, new thinking requires that we view ageing as a lifelong and society-wide phenomenon, not a phenomenon exclusively pertaining to older persons.

1.10.1 Sample Answer

If the fact and trend that we are living in an ageing world continues, the demographic revolution, as powerful as the industrial revolution, will bring both challenges and opportunities to the society and will be a lifelong and society wide phenomenon.

1.11 THE PROBLEM OF PREDICTION

As far as prediction is concerned, remember that the chairman of IBM predicted in the fifties that the world would need a maximum of around half a dozen computers, that the British Department for Education seemed to think in the eighties that we would all need to be able to code in BASIC and that in the nineties Microsoft failed to foresee the rapid growth of the Internet. Who could have predicted that one major effect of the automobile would be to bankrupt small shops across the nation? Could the early developers of the telephone have foreseen its development as a medium for person-to-person communication, rather than as a form of broadcasting medium? We all, including the 'experts', seem to be peculiarly inept at predicting the likely development of our technologies, even as far as the next year. We can, of course, try to extrapolate from experience of previous technologies, as I do below by comparing the technology of the Internet with the development of other information and communication technologies and by examining the earlier development of radio and print. But how justified I might be in doing so remains an open question. You might conceivably find the history of the British and French videotex systems, Prestel and Minitel, instructive. However, I am not entirely convinced that they are very relevant, nor do I know where you can find information about them on-line, so, rather than take up space here, I've briefly described them in a separate article.

1.11.1 Sample Answer

We all, including expert, seem to be unlikely to predict the development of our, even recent, technologies, though you could compare them with earlier technologies and find relevant information.

1.12 ARE FEMALE SONGBIRDS EVOLUTION'S UNSUNG HEROINES?

Males do the singing and females do the listening. This has been the established, even cherished view of courtship in birds, but now some ornithologists are changing tune.

Laszlo Garamszegi of the University of Antwerp, Belgium, and colleagues studied the literature on 233 European songbird species. Of the 109 for which information on females was available, they found evidence for singing in 101 species. In only eight species could the team conclude that females did not sing.

Females that sing have been overlooked, the team say, because either their songs are quiet, they are mistaken for males from their similar plumage or they live in less well-studied areas such as the tropics. Garamszegi blames Charles Darwin for the oversight. "He emphasised the importance of male sexual display, and this is what everyone has been looking at."

The findings go beyond modern species. After carefully tracing back an evolutionary family tree for their songbirds, Garamszegi's team discovered that, in at least two bird families, singing evolved in females first. They suggest these ancient females may have been using their songs to deter other females from their territories, to coordinate breeding activities with males, or possibly to attract mates.

"It leaves us with a perplexing question," says Garamszegi. "What evolutionary forces drove some females to give up singing?"

Before people believed that male sings and female listen, traditionally studies normally focus on male as they are more important in xx areas. After examined the family tree of songbird, at least two female sings for surviving reasons.

1.12.1 Sample Answer

A research done by Laszlo Garamszegi and his team shows that most female songbirds could sing and some species sing for surviving reasons and that this fact is overlooked due to Darwin's emphasis on the importance of male display.

1.13 COUNTRY LIVING

Live in the country and last three years longer than my city friends? Good news indeed, more backing for a lifestyle choice made half a lifetime ago when it seemed a good idea to exchange an Edinburgh terrace for a farm cottage.

I knew it was a good idea because I had been there before. Born and reared on a farm I had been seduced for a few years by the idea of being a big shot who lived and worked in a city rather than only going for the day to wave at the buses.

True, I was familiar with some of the minor disadvantages of country living such as an iffy private water supply sometimes infiltrated by a range of flora and fauna (including, on one memorable occasion, a dead lamb), the absence of central heating in farm houses and cottages, and a single-track farm road easily blocked by snow, broken-down machinery or escaped livestock.

But there were many advantages as I told Liz back in the mid-Seventies. Town born and bred, eight months pregnant and exchanging a warm, substantial Corstorphine terrace for a windswept farm cottage on a much lower income, persuading her that country had it over town might have been difficult.

1.13.1 Sample Answer

Although there are many advantages of country living, it is still difficult to persuade a town-born and bred person to live in the country due to disadvantages and inconvenience of country living life.

1.14 HOUSE MICE

According to new research, house mice (*Mus musculus*) are ideal biomarkers of human settlement, as they tend to stow away in crates or on ships that end up going where people go. Using mice as a proxy for human movement can add to what is already known through archaeological data and answer important questions in areas where there is a lack of artifacts, Searle said.

Where people go, so do mice, often stowing away in carts of hay or on ships. Despite a natural range of just 100 meters (109 yards) and an evolutionary base near Pakistan, the house mouse has managed to colonize every continent, which makes it a useful tool for researchers like Searle.

Previous research conducted by Searle at the University of York supported the theory that Australian mice originated in the British Isles and probably came over with convicts shipped there to colonize the continent in the late 18th and 19th centuries.

In the Viking study, he and his fellow researchers in Iceland, Denmark and Sweden took it a step further, using ancient mouse DNA collected from archaeological sites dating from the 10th to 12th centuries, as well as modern mice.

He is hoping to do just that in his next project, which involves tracking the migration of mice and other species, including plants, across the Indian Ocean, from South Asia to East Africa.

1.14.1 Sample Answer

Due to their nature of stowing away around humans, house mice are used by researchers as additional information sources to known archaeological data, to study human settlement and movement.

1.15 BEAUTY CONTEST

Since Australians Jennifer Hawkins and Lauryn Eagle were crowned Miss Universe and Miss Teen International respectively, there has been a dramatic increase in interest in beauty pageants in this country. These wins have also sparked a debate as to whether beauty pageants are just harmless reminders of old-fashioned values or a throwback to the days when women were respected for how good they looked.

Opponents argue that beauty pageants, whether it's Miss Universe or Miss Teen International, are demeaning to women and out of sync with the times. They say they are nothing more than symbols of decline.

In the past few decades Australia has taken more than a few faltering steps toward treating women with dignity and respect. Young women are being brought up knowing that they can do anything, as shown by inspiring role models in medicine such as 2003 Australian of the Year Professor Fiona Stanley.

In the 1960s and 70s, one of the first acts of the feminist movement was to protest beauty pageants on the premise that the industry promoted the view that it was acceptable to judge women on their appearance. Today many young Australian women are still profoundly uncomfortable with their body image, feeling under all kinds of pressures because they are judged by how they look.

Almost all of the pageant victors are wafer thin, reinforcing the message that thin equals beautiful. This ignores the fact that men and women come in all sizes and shapes. In a country where up to 60% of young Australians

1.15.1 Sample Answer

Opponents to beauty pageants argue that it is demeaning to women and is a symbol of decline because in the past, Australian women were treated with dignity and respect, while beauty pageants, promoted from the 1960s, seem to convey that women could be judged on their appearance.

1.16 COMPARATIVE ADVANTAGES

With an abundance of low-priced labor relative to the United States, it is no surprise that China, India and other developing countries specialize in the production of labor-intensive products. For similar reasons, the United States will specialize in the production of goods that are human- and physical-capital intensive because of the relative abundance of a highly-educated labor force and technically sophisticated equipment in the United States.

This division of global production should yield higher global output of both types of goods than would be the case if each country attempted to produce both of these goods itself. For example, the United States would produce more expensive labor-intensive goods because of its more expensive labor and the developing countries would produce more expensive human and physical capital-intensive goods because of their relative scarcity of these inputs. This logic implies that the United States is unlikely to be a significant global competitor in the production green technologies that are not relatively intensive in human and physical capital.

Nevertheless, during the early stages of the development of a new technology, the United States has a comparative advantage in the production of the products enabled by this innovation. However, once these technologies become well-understood and production processes are designed that can make use of less-skilled labor, production will migrate to countries with less expensive labor.

1.16.1 Sample Answer

Although some developing countries, such as China, become competent in the production green industries because they have a comparative advantage over the United States, in producing labour intensive goods due to the relatively lower-priced labour, the United States still has a comparative advantage enabled by innovation in the production at the early stage of the development of a new technology.

1.16.2 Explanation Notes

Comparative advantage is an important definition in international trade and economics. Luckily, I am major in international trade. Obviously it is easy for me to understand this article. So if you can learn more and know more, about every subject, every topic, every aspect of your life, PTE is no longer hard for you. From now on, be more curious about your

1.17 NOBEL PEACE PRIZE

This year's Nobel Peace Prize justly rewards the thousands of scientists of the United Nations Climate Change Panel (the IPCC). These scientists are engaged in excellent, painstaking work that establishes exactly what the world should expect from climate change.

The other award winner, former US Vice President Al Gore, has spent much more time telling us what to fear. While the IPCC's estimates and conclusions are grounded in careful study, Gore doesn't seem to be similarly restrained.

Gore told the world in his Academy Award-winning movie (recently labeled "one-sided" and containing "scientific errors" by a British judge) to expect 20-foot sea-level rises over this century. He ignores the findings of his Nobel co-winners, the IPCC, who conclude that sea levels will rise between only a half-foot and two feet over this century, with their best expectation being about one foot. That's similar to what the world experienced over the past 150 years.

Likewise, Gore agonizes over the accelerated melting of ice in Greenland and what it means for the planet, but overlooks the IPCC's conclusion that, if sustained, the current rate of melting would add just three inches to the sea level rise by the end of the century. Gore also takes no notice of research showing that Greenland's temperatures were higher in 1941 than they are today.

Gore also frets about the future of polar bears. He claims they are drowning as their icy habitat disappears. However, the only scientific study showing any such thing indicates that four polar bears drowned because of a storm.

The politician-turned-movie maker loses sleep over a predicted rise in heat-related deaths. There's another side of the story that's inconvenient to mention: rising temperatures will reduce the number of cold spells, which are a much bigger killer than heat. The best study shows that by 2050, heat will claim 400,000 more lives, but 1.8 million fewer will die because of cold. Indeed, according to the first complete survey of the economic effects of climate change for the world, global warming will actually save lives.

1.17.1 Sample Answer

Al Gore, in his award-winning movie, expresses his fear about sea-level rises over this century, the accelerated melting of ice in Greenland, the future of polar bears a predicted rise in heat-related deaths and these concerns go against scientific studies done by his co-winner of this year's Nobel Peace Prize, the IPCC.

1.18 PARENT'S BORN ORDER AFFECTS THEIR PARENTING

Parents' own birth order can become an issue when dynamics in the family they are raising replicate the family in which they were raised. Agati notes common examples, such as a firstborn parent getting into "raging battles" with a firstborn child. "Both are used to getting the last word. Each has to be right. But the parent has to be the grown-up and step out of that battle," he advises. When youngest children become parents, Agati cautions that because they "may not have had high expectations placed on them, they in turn may not see their kids for their abilities."

But he also notes that since youngest children tend to be more social, "youngest parents can be helpful to their firstborn, who may have a harder time with social situations. These parents can help their eldest kids loosen up and not be so hard on themselves. Mom Susan Ritz says her own birth order didn't seem to affect her parenting until the youngest of her three children, Julie, was born. Julie was nine years younger than Ritz's oldest, Joshua, mirroring the age difference between Susan and her own older brother. "I would see Joshua do to Julie what my brother did to me," she says of the taunting and teasing by a much older sibling.

"I had to try not to always take Julie's side." Biases can surface no matter what your own birth position was, as Lori Silverstone points out. "As a middle myself, I can be harder on my older daughter. I recall my older sister hitting me," she says of her reactions to her daughters' tussles.

"My husband is a firstborn. He's always sticking up for the oldest. He feels bad for her that the others came so fast. He helps me to see what that feels like, to have that attention and then lose it." Silverstone sees birth-order triggers as "an opportunity to heal parts of ourselves. I've learned to teach my middle daughter to stand up for herself."

My mother didn't teach me that. I'm conscious of giving my middle daughter tools so she has a nice way to protect herself."

Whether or not you subscribe to theories that birth order can affect your child's personality, ultimately, "we all have free will," Agati notes. It's important for both parents and kids to realize that, despite the characteristics often associated with birth order, "you're not locked into any role."

1.18.1 Sample Answer

Despite the theory that parents' own birth order can affect their parenting, and that parents usually replicate the family in which they were raised, both parents and children have free will to build up their own personality and characteristics.

1.19 NAPPING

A large new study has found that people who regularly took a siesta were significantly less likely to die of heart disease.

"Taking a nap could turn out to be an important weapon in the fight against coronary mortality," said Dimitrios Trichopoulos of the Harvard School of Public Health in Boston, who led the study published yesterday in the Archives of Internal Medicine.

The study of more than 23,000 Greek adults -- the biggest and best examination of the subject to date -- found that those who regularly took a midday siesta were more than 30 percent less likely to die of heart disease.

Other experts said the results are intriguing. Heart disease kills more than 650,000 Americans each year, making it the nation's No. 1 cause of death.

"It's interesting. A little siesta, a little snooze may be beneficial," said Gerald Fletcher, a cardiologist at the Mayo Clinic in Jacksonville, Fla., speaking on behalf of the American Heart Association. "It's simple, but it has a lot of promise."

While more research is needed to confirm and explore the findings, there are several ways napping could reduce the risk of heart attacks, experts said.

"Napping may help deal with the stress of daily living," said Michael Twery, who directs the National Heart Lung and Blood Institute's National Center on Sleep Disorders Research.

"Another possibility is that it is part of the normal biological rhythm of daily living. The biological clock that drives sleep and wakefulness has two cycles each day, and one of them dips usually in the early afternoon. It's possible that not engaging in napping for some people might disrupt these processes."

Researchers have long known that countries such as Greece, Italy and Spain, where people commonly take siestas, have lower rates of heart disease than would be expected. But previous studies that attempted to study the relationship between naps and heart disease have produced mixed results. The new study is first to try to fully account for factors that might confuse the findings, such as physical activity, diet and other illnesses.

1.19.1 Sample Answer

Although more research is needed, some studies show that a regular midday siesta could reduce the probability of death caused by heart disease, by helping to deal with stress and biological rhythm of daily living.

1.20 TREE RING DATING/DENDROCHRONOLOGY 树的年轮

Here's how tree ring dating, known to scientists as dendrochronology (from the Greek roots Dendron = tree, and chronos = time), works. If you cut a tree down today, it's straightforward to count the rings inwards, starting from the tree's outside (corresponding to this year's growth ring), and thereby to state that the 177th ring from the outermost one towards the centre was laid down in the year 2005 minus 177, or 1828. However, the widths of tree growth rings vary from year to year, depending on the rain or drought conditions in each year.

Hence the sequence of the rings in a tree cross-section is like a message in Morse code formerly used for sending telegraph messages; dot-dot-dash-dot-dash in the Morse code, wide-wide-narrow-wide-narrow in the tree ring sequence. Actually the tree ring sequence is even more diagnostic and richer in information than the Morse code, because trees actually contain rings spanning many different width, rather than the Morse code choice between dot and dash.

Tree ring specialists (known as dendrochronologists) proceed by noting the sequence of wider and narrower rings in a tree cut down in a known recent year, and also noting the sequences in beams from trees cut down at various times in the past. They then match up and align the tree ring sequences with the same diagnostic wide/narrow patterns from different beams.

In that way, dendrochronologists have constructed tree ring records extending back for thousands of years in some parts of the world. Each record is valid for a geographic area whose extent depends on local weather patterns, because weather and hence tree growth patterns vary with location.

A bonus of dendrochronology is that the width and substructure of each ring reflects the amount of rain and the season at which the rain fell during that particular year. Thus, tree ring studies also allow one to reconstruct the past climate, e.g., a series of wide rings means a very wet period, and a series of narrow rings means a drought.

1.20.1 Sample Answer

Dendrochronology is a scientific method of dating based on the construction and analysis of patterns of tree rings and it can help to reconstruct the past climate for a geographic area.

1.21 THE KHOIKHOI

San , people of southern Africa, consisting of several groups and numbering over 85,000 in all. They are generally short in stature; their skin is yellowish brown in color; and they feature prominent cheekbones. The San have been called Bushmen by whites in South Africa, but the term is now considered derogatory. Although many now work for white settlers, about half are still nomadic hunters and gatherers of wild food in desolate areas like the Kalahari semi-desert, which stretches between todays Nation States of Botswana, Namibia and South Africa. Their social unit is the small hunting band; larger organizations are loose and temporary. Grasshuts, caves and rock shelters are used as dwellings. They possess only what they can carry, using poisoned arrowheads to fell game and transporting water in ostrich-egg shells. The San have a rich folklore, are skilled in drawing, and have a remarkably complex language characterized by the use of click sounds, related to that of the Khoikhoi . For thousands of years the San lived in southern and central Africa, but by the time of the Portuguese arrival in the 15th cent., they had already been forced into the interior of southern Africa. In the 18th and 19th cent., they resisted the encroachment on their lands of Dutch settlers, but by 1862 that resistance had been crushed.

1.21.1 Sample Answer

San, short Southern African people with yellowish brown skin color and prominent cheekbones, are living in primitive ways and small hunting bands previously lived in southern and central Africa.

1.22 COMPUTER PROGRAMMING

Consider the current situation: Like their counterparts in the United States, engineers and technicians in India have the capacity to provide both computer programming and innovative new technologies. Indian programmers and high-tech engineers earn one-quarter of what their counterparts earn in the United States. Consequently, India is able to do both jobs at a lower dollar cost than the United States: India has an absolute advantage in both. In other words, it can produce a unit of programming for fewer dollars than the United States, and it can also produce a unit of technology innovation for fewer dollars. Does that mean that the United States will lose not only programming jobs but innovative technology jobs, too? Does that mean that our standard of living will fall if the United States and India engage in international trade?

David Ricardo would have answered no to both questions—as we do today. While India may have an absolute advantage in both activities, that fact is irrelevant in determining what India or the United States will produce. India has a comparative advantage in doing programming in part because such activity requires little physical capital. The flip side is that the United States has a comparative advantage in technology innovation partly because it is relatively easy to obtain capital in this country to undertake such long-run projects. The result is that Indian programmers will do more and more of what U.S. programmers have been doing in the past. In contrast, American firms will shift to more and more innovation. The United States will specialize in technology innovation; India will specialize in programming. The business managers in each country will opt to specialize in activities in which they have a comparative advantage. As in the past, the U.S. economy will continue to concentrate on what are called the "most best" activities.

1.22.1 Sample Answer

What a country will engage in international trade depends on its comparative advantage, so India will do more computer programming due to its comparative disadvantage of obtaining physical capital while the United States will engage in capital-intensive technology innovation, though India can do both at lower costs.

1.23 TOURISM INDUSTRY

Jobs generated by Travel & Tourism are spread across the economy - in retail, construction, manufacturing and telecommunications, as well as directly in Travel & Tourism companies. These jobs employ a large proportion of women, minorities and young people; are predominantly in small and medium sized companies; and offer good training and transferability. Tourism can also be one of the most effective drivers for the development of regional economies. These patterns apply to both developed and emerging economies.

There are numerous good examples of where Travel & Tourism is acting as a catalyst for conservation and improvement of the environment and maintenance of local diversity and culture. Travel & Tourism creates jobs and wealth and has tremendous potential to contribute to economically, environmentally and socially sustainable development in both developed countries and emerging nations. It has a comparative advantage in that its start up and running costs can be low compared to many other forms of industry development. It is also often one of the few realistic options for development in many areas. Therefore, there is a strong likelihood that the Travel & Tourism industry will continue to grow globally over the short to medium term.

1.23.1 Sample Answer

Travel and tourism industry improves the development of regional economies and maintenance of the environment and culture and it will continue to grow in the short to medium term because of its comparatively low starting and running costs.

1.24 THEORY OF RESONANCE

The history of marketers seeking the advice of physicists is a short one, but an understanding of the Theory of Resonance may give communications experts the edge. Resonance Theory explains the curious phenomenon of how very small pebbles dropped into a pond can create bigger waves than a large brick. The brick makes a decent splash but its ripples peter out quickly. A tiny pebble dropped into the same pond, followed by another, then another, then another, all timed carefully, will create ripples that build into small waves.

As Dr Carlo Contaldi, a physicist at Imperial College London, explains, a small amount of energy committed at just the right intervals - the 'natural frequency' - creates a cumulatively large effect.

Media consultant Paul Bay believes that just as with pebbles in a pond, a carefully choreographed and meticulously timed stream of communication will have a more lasting effect than a sporadic big splash during prime time TV breaks.

Innocent is testament to the power of pebbles. Until last year, the maker of smoothies had never advertised on TV, instead drip-feeding the market with endless ingenious marketing ploys - from annotating its drinks labels with quirky messages to hosting its own music festival, Fruitstock. The company sent a constant stream of messages rather than communicating through the occasional big and expensive noise.

So whether you're trying to make waves in the laboratory or in the media, the people in white coats would advise a little and often. A big budget is not the prerequisite of success.

1.24.1 Sample Answer

Resonance theory, which explains that very small pebbles dropped into a pond can create bigger waves than a large brick, could also be applied to media and a carefully choreographed and meticulously timed stream of communication will create a more cumulative and lasting effect than a big occasional propaganda.

1.25 ANTI-BULLYING PROJECT

Spurred by the sense that disorderly behaviour among students in South Euclid was increasing, the school resource officer (SRO) reviewed data regarding referrals to the principal's office. He found that the high school reported thousands of referrals a year for bullying and that the junior high school had recently experienced a 30 percent increase in bullying referrals. Police data showed that juvenile complaints about disturbances, bullying, and assaults after school hours had increased 90 percent in the past 10 years.

A researcher from Kent State University (Ohio) conducted a survey of all students attending the junior high and high school. Interviews and focus groups were conducted with students—identified as victims or offenders—teachers, and guidance counsellors. Finally, the South Euclid Police Department purchased a Geographic Information System to conduct crime incident mapping of hotspots within the schools. The main findings pointed to four primary areas of concern: the environmental design of the school; teacher knowledge of and response to the problem; parental attitudes and responses; and student perspectives and behaviours.

The SRO worked in close collaboration with a social worker and the university researcher. They coordinated a Response Planning Team comprising many stakeholders that was intended to respond to each of the areas identified in the initial analysis. Environmental changes included modifying the school schedule and increasing teacher supervision of hotspots. Counsellors and social workers conducted teacher training courses in conflict resolution and bullying prevention. Parent education included mailings with information about bullying, an explanation of the new school policy, and a discussion about what could be done at home to address the problems. Finally, student education included classroom discussions between homeroom teachers and students, as well as assemblies conducted by the SRO. The SRO also opened a substation next to a primary hotspot. The Ohio Department of Education contributed by opening a new training centre to provide a non-traditional setting for specialized help.

The results from the various responses were dramatic. School suspensions decreased 40 percent. Bullying incidents dropped 60 percent in the hallways and 80 percent in the gym area. Follow-up surveys indicated that there were positive attitudinal changes among students about bullying and that more students felt confident that teachers would take action when a problem arose. Teachers indicated that training sessions were helpful and that they were more likely to talk about bullying as a serious issue. Parents responded positively, asking for more information about the problem in future mailings. The overall results suggest that the school environments were not only safer, but that early intervention was helping at-risk students succeed in school.

1.25.1 Sample Answer

The school resource office coordinated a Response Planning Team to respond to major concerns about disorderly behaviour among students and the results for each concern were dramatically positive.

1.26 AGEING WORLD

We live in an ageing world. While this has been recognized for some time in developed countries, it is only recently that this phenomenon has been fully acknowledged. Global communication is "shrinking" the world, and global ageing is "maturing" it. The increasing presence of older persons in the world is making people of all ages more aware that we live in a diverse and multigenerational society. It is no longer possible to ignore ageing, regardless of whether one views it positively or negatively.

Demographers note that if current trends in ageing continue as predicted, a demographic revolution, wherein the proportions of the young and the old will undergo a historic crossover, will be felt in just three generations. This portrait of change in the world's population parallels the magnitude of the industrial revolution - traditionally considered the most significant social and economic breakthrough in the history of humankind since the Neolithic period. It marked the beginning of a sustained movement towards modern economic growth in much the same way that globalization is today marking an unprecedented and sustained movement toward a "global culture". The demographic revolution, it is envisaged, will be at least as powerful.

While the future effects are not known, a likely scenario is one where both the challenges as well as the opportunities will emerge from a vessel into which exploration and research, dialogue and debate are poured. Challenges arise as social and economic structures try to adjust to the simultaneous phenomenon of diminishing young cohorts with rising older ones, and opportunities present themselves in the sheer number of older individuals and the vast resources societies stand to gain from their contribution.

This ageing of the population permeates all social, economic and cultural spheres. Revolutionary change calls for new, revolutionary thinking, which can position policy formulation and implementation on sounder footing. In our ageing world, new thinking requires that we view ageing as a lifelong and society-wide phenomenon, not a phenomenon exclusively pertaining to older persons.

1.26.1 Sample Answer

If the fact and trend that we are living in an ageing world continues, the demographic revolution, as powerful as the industrial revolution, will bring both challenges and opportunities to the society and will be a lifelong and society wide phenomenon.

1.27 THE DEMAND FOR TALENT

Some of this panic is overdone — and linked to the business cycle: there was much ado about “a war for talent” in America in the 1990s, until the dotcom bubble burst. People often talk about shortages when they should really be discussing price. Eventually, supply will rise to meet demand and the market will adjust. But, while you wait, your firm might go bust. For the evidence is that the talent shortage is likely to get worse.

Nobody really disputes the idea that the demand for talent-intensive skills is rising. The value of “intangible” assets—everything from skilled workers to patents to know-how—has ballooned from 20% of the value of companies in the S&P 500 to 70% today. The proportion of American workers doing jobs that call for complex skills has grown three times as fast as employment in general. As other economies move in the same direction, the global demand is rising quickly.

As for supply, the picture in much of the developed world is haunted by demography. By 2025 the number of people aged 15-64 is projected to fall by 7% in Germany, 9% in Italy and 14% in Japan. Even in still growing America, the imminent retirement of the baby-boomers means that companies will lose large numbers of experienced workers in a short space of time (by one count half the top people at America's 500 leading companies will go in the next five years). Meanwhile, two things are making it much harder for companies to adjust.

The first is the collapse of loyalty. Companies happily chopped out layers of managers during the 1990s; now people are likely to repay them by moving to the highest bidder. The second is the mismatch between what schools are producing and what companies need. In most Western countries schools are churning out too few scientists and engineers—and far too many people who lack the skills to work in a modern economy (that's why there are talent shortages at the top alongside structural unemployment for the low-skilled).

1.27.1 Sample Answer

Talent shortage is likely to get worse globally in the future because of the imminent retirement of baby-boomers, the collapse of loyalty and the mismatch between what schools are producing and what companies need.

1.28 MARSHMALLOW TEST

They call it the "marshmallow test." A four- to six-year-old-child sits alone in a room at a table facing a marshmallow on a plate. The child is told: "If you don't eat this treat for 15 minutes you can have both it and a second one." Kids on average wait for five or six minutes before eating the marshmallow. The longer a child can resist the treat has been correlated with higher general competency later in life.

Now a study shows that ability to resist temptation isn't strictly innate—it's also highly influenced by environment.

Researchers gave five-year-olds used crayons and one sticker to decorate a sheet of paper. One group was promised a new set of art supplies for the project—but then never received it. But the other group did receive new crayons and better stickers.

Then both groups were given the marshmallow test. The children who had been lied to waited for a mean time of three minutes before eating the marshmallow. The group that got their promised materials resisted an average of 12 minutes.

Thus, the researchers note that experience factors into a child's ability to delay gratification. When previous promises have been hollow, why believe the next one?

1.28.1 Sample Answer

A study shows that children's ability to resist temptation is highly influenced by experiences and that children who get their promises before could delay gratification longer.

1.29 CRISIS IN BRITISH ARCHAEOLOGY

Human remains are a fundamental part of the archaeological record, offering unique insights into the lives of individuals and populations in the past. Recently a new set of challenges to the study of human remains has emerged from a rather unexpected direction: the British government revised its interpretation of nineteenth-century burial legislation in a way that would drastically curtail the ability of archaeologists to study human remains of any age excavated in England and Wales. This paper examines these extraordinary events and the legal, political and ethical questions that they raise.

In April 2008 the British government announced that, henceforth, all human remains archaeologically excavated in England and Wales should be reburied after a two-year period of scientific analysis. Not only would internationally important prehistoric remains have to be returned to the ground, removing them from public view, but also there would no longer be any possibility of long-term scientific investigation as new techniques and methods emerged and developed in the future. Thus, while faunal remains, potsherds, artefacts and environmental samples could be analysed and re-analysed in future years, human remains were to be effectively removed from the curation process. Archaeologists and other scientists were also concerned that this might be the first step towards a policy of reburying all human remains held in museum collections in England and Wales including prehistoric, Roman, Saxon, Viking and Medieval as well as more recent remains.

1.29.1 Sample Answer

The British government's announcement that all human remains archaeologically excavated in England and Wales need reburying, will negatively affect the study of human remains.

1.30 GEOTHERMAL ENERGY IN AFRICA

What is the solution for nations with increasing energy demands, hindered by frequent power cuts and an inability to compete in the international oil market? For East Africa at least, experts think geothermal energy is the answer. More promising still, the Kenyan government and international investors seem to be listening. This is just in time according to many, as claims of an acute energy crisis are afoot due to high oil prices, population spikes and droughts.

Currently over 60% of Kenya's power comes from hydroelectric sources but these are proving increasingly unreliable as the issue of seasonal variation is intensified by erratic rain patterns. Alternative energy sources are needed; and the leading energy supplier in Kenya, Kenya Electricity Generating Company (KenGen), hopes to expand its geothermal energy supply from 13% to 25 % of its total usage by 2020. The potential of geothermal energy in the region was first realised internationally by the United Nations Development Program, when geologists observed thermal anomalies below the East African Rift system. Locals have been utilising this resource for centuries; using steam vents to create the perfect humidity for greenhouses, or simply to enjoy a swim in the many natural hot lakes.

Along the 6000 km of the rift from the Red Sea to Mozambique, geochemical, geophysical and heat flow measurements were made to identify areas suitable for geothermal wells. One area lies next to the extinct Olkaria volcano, within the Hell's Gate National Park, and sits over some of the thinnest continental crust on Earth. This is a result of the thinning of the crust by tectonic stretching, causing hotter material below the Earth's surface to rise, resulting in higher temperatures. This thin crust was ideal for the drilling of geothermal wells, reaching depths of around 3000 m, where temperatures get up to 342°C, far higher than the usual temperature of 90°C at this depth. Water in the surrounding rocks is converted to steam by the heat. The steam can be used to drive turbines and produce electricity. Wells like those in Olkaria operate by pumping cold water down to permeable 'geothermal reservoir' rocks, causing steam to rise back up a nearby production well. Care must be taken with the rate at which cold water is added so as to not permanently cool the source rock.

1.30.1 Sample Answer

Geothermal energy will be used as alternative electric sources to meet increasing energy demands in East African countries due to the geological advantages, thermal anomalies below the East African Rift system.

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